

Minneapolis Water Works Monthly Plant Effluent Water Analysis for: February 2017

Physical and Chemical Wa	ater C	Juar	ıty
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	Tripered drive erreringer in about Summed
	Plant Effluent Average Value
Temperature, River Water Average (°C)	3.0
Total Organic Carbon (ppm* as C)	4.03
Total Dissolved Solids (ppm)	164
Turbidity (NTU)	0.09
Alkalinity-Total (ppm as CaCO ₃)	48
Ammonia Nitrogen (ppm as N)	0.81
Chlorine Residual (ppm Cl as Cl ₂)	3.8
Fluoride-F (ppm as F)	0.69
pH	8.74
Nitrate - NO ₃ (ppm as N)	Not Analyzed
Nitrite - NO ₂ (ppm as N)	< 0.015
Phosphate-PO ₄ (ppm as PO ₄)	0.84
Sulfate - SO ₄ (ppm as SO ₄)	25.1
Total Hardness (grains per gallon) EDTA r	nethod 4.71
Total Hardness (ppm as CaCO ₃) EDTA me	ethod 81

Chemical Water Quality - Inorganic Metals

Plant Effluent Average Value

Chemical Element

Aluminum-Al (ppm as Al)	Not Detected
Arsenic-As (ppm as As)	Not Detected
Cadmium-Cd (ppm as Cd)	Not Detected
Calcium-Ca (ppm as Ca)	23.8
Chloride-Cl (ppm as Cl)	29.3
Chromium (ppm as Cr)	< 0.01
Copper-Cu (ppm as Cu)	0.01
Iron-Fe (ppm as Fe)	Not Detected
Lead-Pb (ppm as Pb)	Not Detected
Magnesium-Mg (ppm as Mg)	3.84
Manganese-Mn (ppm as Mn)	< 0.01
Sillca-Si (ppm as Si)	9.45
Sodium-Na (ppm as Na)	15.1
Zinc-Zn (ppm as Zn)	Not Detected
*ppm = parts per million	